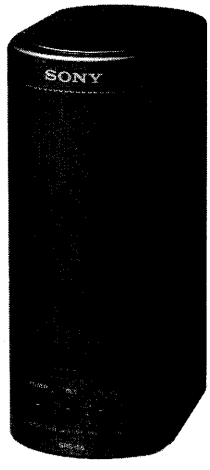
SRS-58PC

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model



SPECIFICATIONS

Power output	3 W + 3 W with the internal batteries
Input	Speaker cord equipped with stereo miniplug (1.5 m)
Input impedance	150 ohms (with the POWER switch set to ON)
Output	Minijack

Speaker section

System	Full-range, bass-reflex enclosure type
Speaker unit	Full range (magnetically shielded): 65 mm (2 5/8 in.) dia.
Impedance	4 ohms
Rated input power	5 W (with the POWER switch set to OFF/DIRECT)

General

Power requirements

External power requirements: DC IN 6 V jack accepts the supplied Sony AC power adaptor.

Internal power requirements: DC 6 V, four size C (R14) batteries per speaker

Battery life (at 10 mW + 10 mW output)	Approx. 60 hours with Sony batteries SUM-2 (NS) Approx. 120 hours with Sony alkaline batteries AM2 (N)
Dimensions	Approx. 77 × 180 × 124 mm (w/h/d) (3 1/8 × 7 1/8 × 5 in.) incl. projecting parts and controls
Weight	Approx. 700 g (24.7 oz.) per speaker, not incl. batteries or other accessories
Supplied accessories	AC power adaptor (1) Rubber cushions (4)
Optional accessories	Connecting cord RK-G138 Plug adaptor PC-236MS, PC-234S

Design and specifications subject to change without notice.

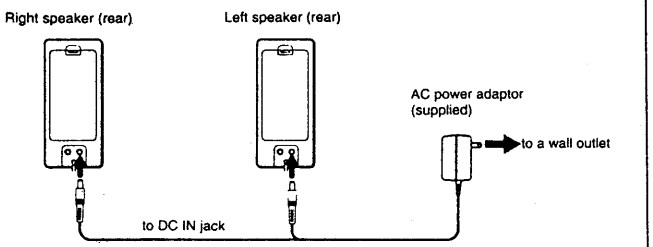
STEREO ACTIVE SPEAKER SYSTEM

SONY®

Power Requirements

The power source is required when the unit is used with the POWER switch set to ON (the built-in power amplifier is in operation).

Using on House Current

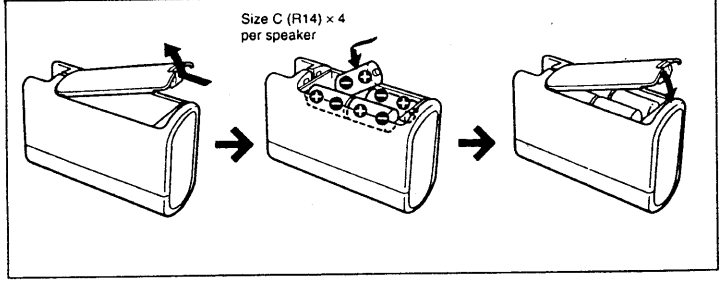


- When the AC power adaptor is connected to the unit, internal batteries are automatically disconnected.
- Set the POWER switches of both speakers to ON when using on house current. If you turn on only one speaker, you may hear some noise.

Note on the AC power adaptor
Use only the supplied AC power adaptor. Do not use any other AC power adaptor.

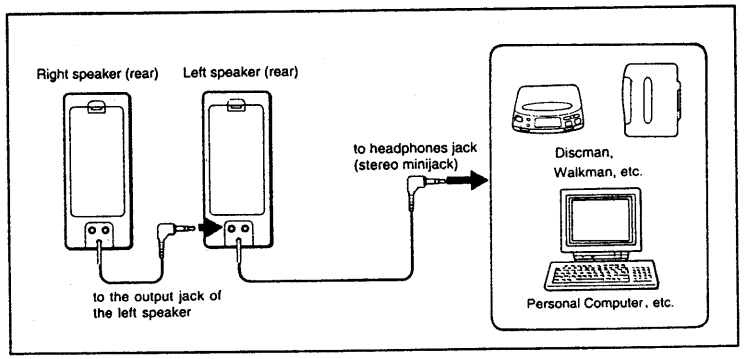
Polarity of the plug

Using on Batteries (not supplied)



Battery replacement
When the batteries are weak, the POWER indicator will glow faintly and the sound will become distorted or unstable. In this case, replace all the batteries with new ones. For battery life, see "Specifications".

Connections


Right speaker (rear)
Left speaker (rear)
to headphones jack (stereo minijack)
Discman, Walkman, etc.
to the output jack of the left speaker
Personal Computer, etc.

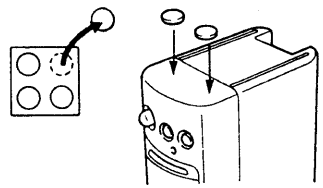
- The sound of the left channel is heard from the speaker connected to the sound source. Be sure to place it on the left.
- No signal is output from the output jack of the right speaker.

Connection to a stereo phone-type headphones jack
Use the optional PC-234S plug adaptor or RK-G138 connecting cord.

Connection to a monaural mini jack
The sound may only be heard from the left speaker if the speakers are connected to a monaural jack of the sound source.
Use the optional PC-236MS plug adaptor.

For Stability of the Speaker Unit

Attach the supplied rubber cushions on the bottom.



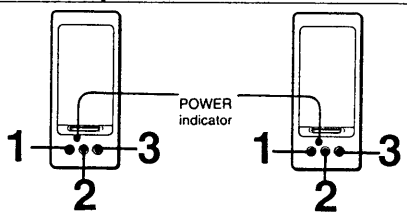
When Carrying the Speakers

Be sure to insert the speaker cord plug into the output jack. Otherwise, the plug may contact metallic objects, and the power may turn on automatically, causing the internal batteries being exhausted.

This section is extracted from instruction manual.

Operation

Using the Built-in Amplifier



1 **Depress the POWER switch on each speaker to ON.**

2 **Depress the DES switch on each speaker to ON or OFF.**
On usual use, keep the DES switches in the ON position. You can enjoy powerful bass and clear treble.

3 **Adjust the volume with the VOLUME control on each speaker.**
When a signal is supplied, the power will be turned on automatically and the POWER indicator will light up.

When the unit is not used for a long period of time
Keep the POWER switches in the OFF/DIRECT position.

Using Without the Built-in Amplifier

Power sources are not required.
Keep the POWER switches in the OFF/DIRECT position. In this case, the VOLUME controls and the DES switches (DES circuit) do not operate.
Adjust the volume on the connected equipment.

To Adjust the Volume

Before playing the connected equipment, set the VOLUME controls on the speakers to MAX, then set the volume control on the connected equipment to a medium position. Start playing the connected equipment and adjust the volume to your preference: use the VOLUME controls on the speakers to turn down the volume, or use the volume control on the connected equipment to turn up the volume.

Power On/Off System of the Built-in Amplifier

When a signal is input, the built-in amplifier automatically turns on and the POWER indicator lights up.
When no signal is supplied, the POWER indicator goes out and the built-in power amplifier turns off automatically about one minute later.

When a signal is interrupted or extremely low sound continues for more than a minute
The power of the speaker system may turn off. To ensure correct operation, increase the volume on the connected equipment so that the POWER indicator lights up.
To lower the volume, be sure to use the VOLUME controls of the speaker system.

For powerful bass and clear treble
While keeping the DES switches in the ON position, DES circuit works and enable you to obtain powerful bass and clear treble regardless of your volume setting.
When you turn up the volume near to "MAX", low sound distortion may occur. In this case, set the DES switches to the OFF position.

Features

The Sony SRS-58/SRS-58PC are compact-sized speaker system with a built-in power amplifier. It can be connected to a Discman, Walkman*, Personal Computer, etc.
- DES (Dynamic Equalizing Sound) circuit enables you to obtain powerful bass and clear treble regardless of the volume setting.
- The "dynamic sound duct" assures a rich and powerful bass.
- The magnetically shielded unit has little effect on a TV screen or recorded tapes, etc. placed near the unit.
- The built-in automatic power on/off system avoids unnecessary power consumption.

* Walkman is a trademark of Sony Corporation.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Precautions

- Operate the unit only on 6 V DC. For AC operation, use the supplied AC power adaptor. Do not use any other power adaptor.
- If the unit is not to be used for a long period of time or is to be operated extensively on AC power, remove the batteries to avoid damage from battery leakage and corrosion.
- Do not open the cabinet. Refer servicing to qualified personnel only.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, moisture, rain or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.
- Do not use alcohol, benzine or thinner to clean the cabinet.

Although this speaker system is magnetically shielded, do not leave recorded tapes, watches, personal credit cards or floppydisks using magnetic coding in front of the unit for an extended period of time for precaution.

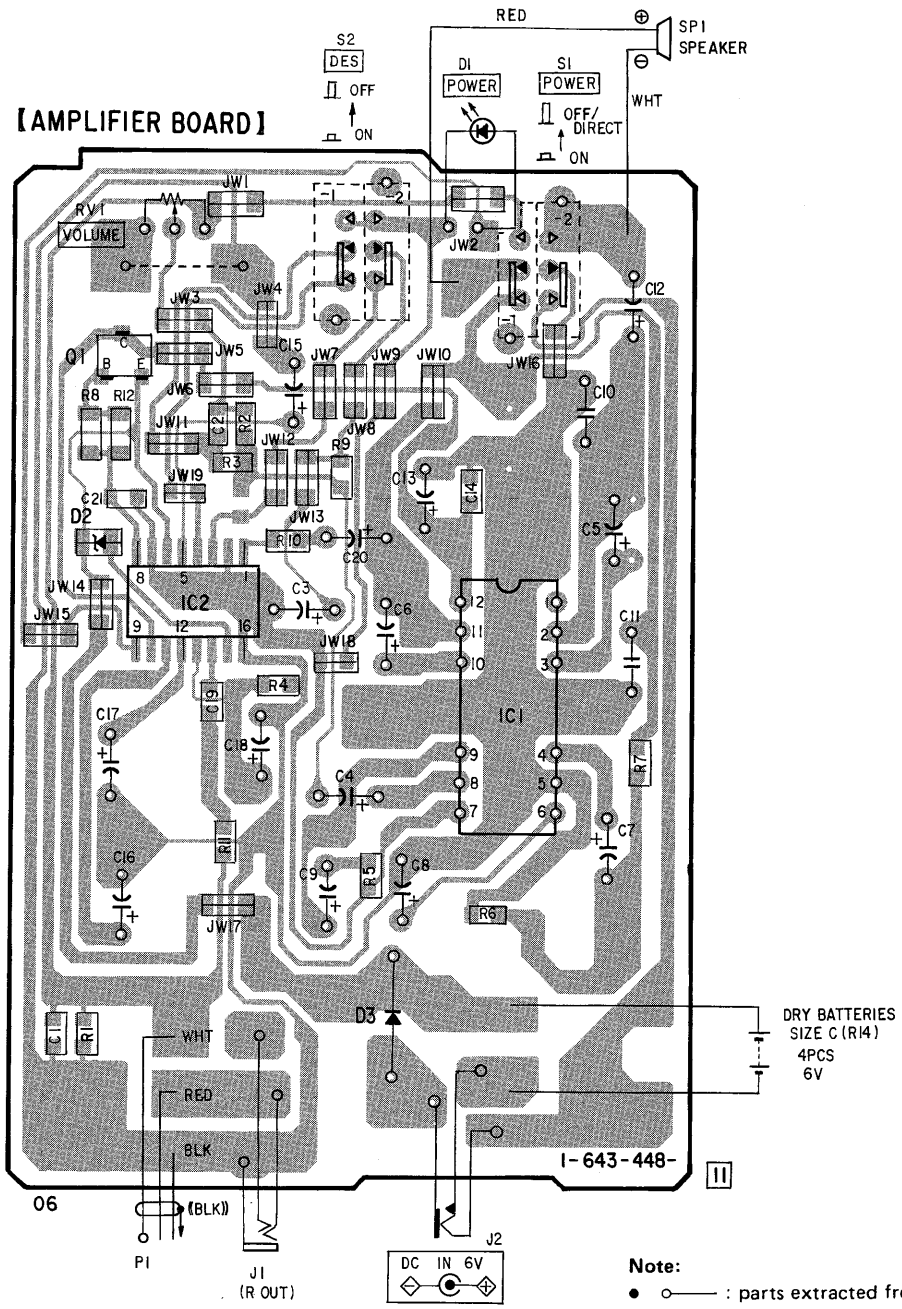
If you have any questions or problems concerning your unit that are not covered in this manual, please consult the nearest Sony dealer.

If the TV picture or monitor display is magnetically distorted

Although this speaker system is magnetically shielded, the picture on some TV sets/personal computer sets may be magnetically distorted. **In such a case,** turn off the power of the TV set/personal computer set once, and after 15 to 30 minutes turn it on again. For the personal computer set, take the appropriate measures such as data storage before turning it off.
When a sign of improvement does not appear, locate the speakers away from the TV set/personal computer set. Furthermore, be sure not to place things in which the magnets are attached or used, such as audio racks, TV stands, toys. These may cause magnetical distortion in the picture due to their interaction with the speaker.

SECTION 2
DIAGRAMS

2-1. PRINTED WIRING BOARD

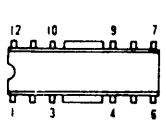


Note:

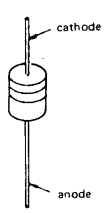
- ○—— : parts extracted from the component side.

2-2. SEMICONDUCTOR LEAD LAYOUTS

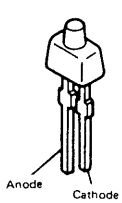
LA4555



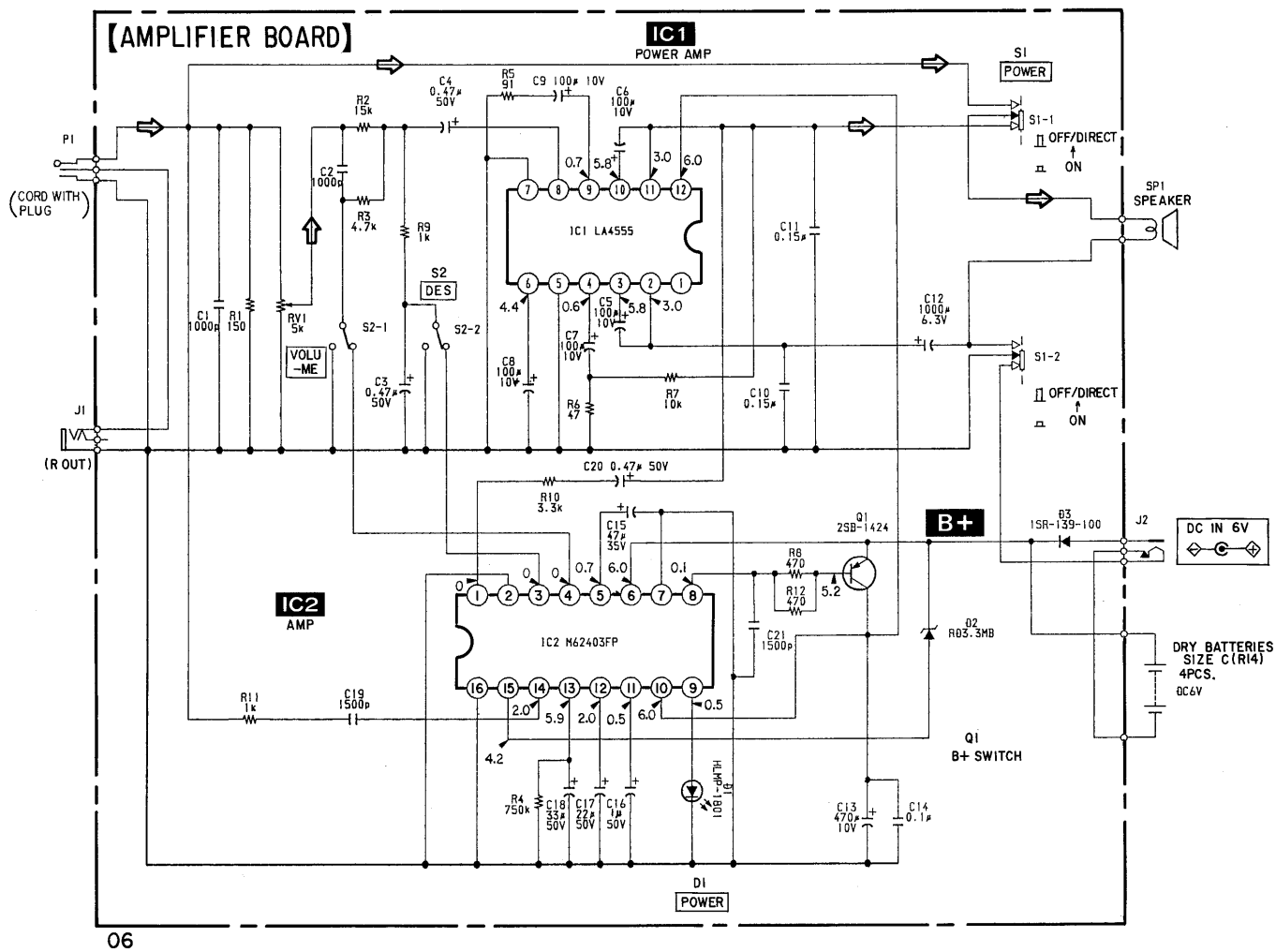
1SR139-100



HLMP-1801

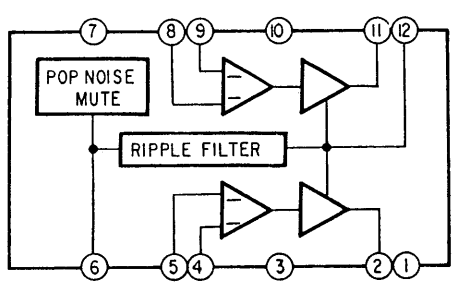


2-3. SCHEMATIC DIAGRAM



2-4. IC BLOCK DIAGRAM

IC1 LA4555



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ : B+ line.
- Power voltage is dc 6V and fed with regulated dc power supply from battery terminal.

  no mark: Power on.
- Voltages are taken with a VOM. (Input impedance 10MΩ) Voltage variations may be noted due to normal production tolerances.
- Signal path.

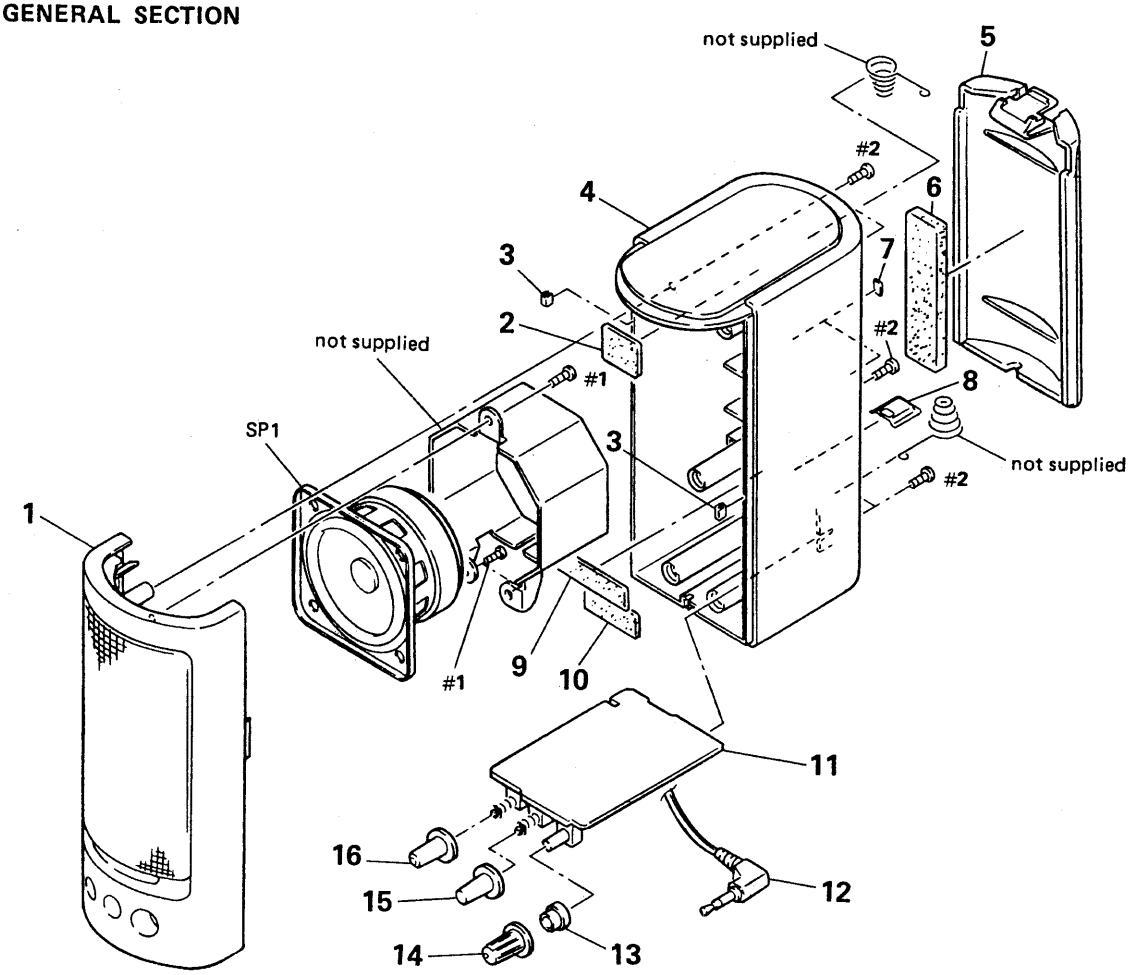
  ⇨ : Signal line

SECTION 3
EXPLODED VIEW

NOTE:

- -XX,-X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts.
  Example:
  KNOB,BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Items marked "＊" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

3-1. GENERAL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4942-858-1	PANEL ASSY, FRONT	
＊ 2	4-951-131-01	SHEET (1), BLIND	
3	3-831-441-11	CUSHION, CABINET UPPER 10X7X0.5	
4	4-950-105-21	CABINET, REAR	
5	4-950-081-21	LID, BATTERY CASE	
6	9-911-815-03	CUSHION (BATTERY)	
7	9-911-850-XX	CUSHION (BATTERY CASE LID)	
8	3-894-933-01	TERMINAL, + BATTERY	
＊ 9	4-951-132-01	SHEET (2), BLIND	
＊ 10	4-951-133-01	SHEET (3), BLIND	

Ref. No.	Part No.	Description	Remark
＊ 11	A-4542-086-A	AMPLIFIER BOARD, COMPLETE	
12	1-559-892-11	CORD (WITH PLUG)	
13	2-141-216-01	SPACER (VOL)	
14	4-950-077-41	KNOB, VOLUME	
15	4-950-078-51	BUTTON (PUSH)	
16	4-950-078-61	BUTTON (PUSH)	
SP1	1-544-620-11	SPEAKER	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the part specified in the diagrams or the components used on the set.
- -XX,-X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case,u : μ ,for example :
  uA... : μA..., uPA... : μPA...,
  uPB... : μPB..., uPC... : μPC...,
  uPD... : μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
*	A-4542-086-A	AMPLIFIER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C3	1-124-902-00	ELECT	0.47uF	20%	50V
C4	1-124-902-00	ELECT	0.47uF	20%	50V
C5	1-126-933-11	ELECT	100uF	20%	16V
C6	1-126-933-11	ELECT	100uF	20%	16V
C7	1-126-933-11	ELECT	100uF	20%	16V
C8	1-126-933-11	ELECT	100uF	20%	16V
C9	1-126-933-11	ELECT	100uF	20%	16V
C10	1-130-497-00	MYLAR	0.15uF	5%	50V
C11	1-130-497-00	MYLAR	0.15uF	5%	50V
C12	1-126-916-11	ELECT	1000uF	20%	6.3V
C13	1-126-925-11	ELECT	470uF	20%	10V
C14	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C15	1-126-947-11	ELECT	47uF	20%	35V
C16	1-124-903-11	ELECT	1uF	20%	50V
C17	1-126-233-11	ELECT	22uF	20%	50V
C18	1-126-966-11	ELECT	33uF	20%	50V
C19	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C20	1-124-902-00	ELECT	0.47uF	20%	50V
C21	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
		< DIODE >			
D1	8-719-023-84	LED HLMP-1801 (POWER)			
D2	8-719-157-11	DIODE RD3.3MBT2			
D3	8-719-974-59	DIODE 1SR139-100			

Ref.No.	Part No.	Description			Remark
		< IC >			
IC1	8-759-801-73	IC LA4555			
IC2	8-759-636-90	IC M62403FP-600C			
		< JACK >			
J1	1-507-777-00	JACK, SMALL TYPE (R OUT)			
J2	1-568-907-21	JACK, EXTERNAL POWER (DC IN 6V)			
		< JUMPER RESISTOR >			
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W
~					
JW17	1-216-296-00	METAL CHIP	0	5%	1/8W
JW18	1-216-295-00	METAL CHIP	0	5%	1/10W
JW19	1-216-295-00	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q1	8-729-926-86	TRANSISTOR 2SB1424-R			
		< RESISTOR >			
R1	1-216-029-00	METAL CHIP	150	5%	1/10W
R2	1-216-077-00	METAL CHIP	15K	5%	1/10W
R3	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R4	1-216-118-00	METAL GLAZE	750K	5%	1/10W
R5	1-216-024-00	METAL GLAZE	91	5%	1/10W
R6	1-216-017-00	METAL CHIP	47	5%	1/10W
R7	1-216-073-00	METAL CHIP	10K	5%	1/10W
R8	1-216-190-00	METAL CHIP	470	5%	1/8W
R9	1-216-049-00	METAL CHIP	1K	5%	1/10W
R10	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R11	1-216-049-00	METAL CHIP	1K	5%	1/10W
R12	1-216-190-00	METAL CHIP	470	5%	1/8W

AMPLIFIER

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV1	1-238-144-11	RES, VAR, CARBON 5K (VOLUME)	
		< SWITCH >	
S1	1-570-913-11	SWITCH, PUSH (POWER)	
S2	1-570-913-11	SWITCH, PUSH (DES)	
		MISCELLANEOUS	
12	1-559-892-11	CORD (WITH PLUG)	
SP1	1-544-620-11	SPEAKER	
		ACCESSORIES & PACKING MATERIALS	
	1-465-990-11	ADAPTOR, AC (AC-S164) (US, Canadian)	
	1-465-991-21	ADAPTOR, AC (AC-S164) (AEP)	
	1-465-992-11	ADAPTOR, AC (AC-S164) (E)	
	1-569-008-11	ADAPTOR, CONVERSION 2P (E)	
	2-129-637-01	STOPPER	
	3-754-811-11	MANUAL, INSTRUCTION (Canadian, AEP, E) (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, FINNISH, DANISH, PORTUGUESE)	
	3-754-811-23	MANUAL, INSTRUCTION (US) (ENGLISH)	
*	4-953-760-01	INDIVIDUAL CARTON	
*	4-950-819-01	CUSHION (LOWER) (US, Canadian)	
*	4-950-819-11	CUSHION (LOWER) (AEP, E)	

HARDWARE LIST

#1	7-685-646-79	SCREW +BVTP	3X8 TYPE2 N-S
#2	7-685-648-79	SCREW +BVTP	3X12 TYPE2 N-S

9-957-274-12

Sony Corporation
General Audio Group

English
93H0629-1
Printed in Japan
©1993.8
Published by Audio Sector Quality Assurance Dept.